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Département à
La Haye
Division de la
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EING 13. Mai 2005		Tx	Bg	Sk
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wv 20.5.05		Lh	Sk	Ru
LT		Su	Sk	Hx

Datum/Date

12.05.05

Zeichen/Ref./Réf. M/KOB-520-EP MB	Anmeldung Nr./Application No./Demande n°./Patent Nr./Patent No./Brevet n°. 02004536.5
Anmelder/Applicant/Demandeur/Patentinhaber/Proprietor/Titulaire Pioneer Corporation	

COMMUNICATION

The European Patent Office herewith transmits

- ☒ the European search report
- ☐ the declaration under Rule 45 EPC
- ☐ the partial European search report under Rule 45 EPC
- ☐ the supplementary European search report concerning the international application under Article 157(2) EPC relating to the above-mentioned European patent application. Copies of the documents cited in the search report are enclosed.

The following specifications given by the applicant have been approved by the Search Division :

- ☒ Abstract ☐ Title ☒ Figure
- ☐ The abstract was modified by the Search Division and the definitive text is attached to this communication.
- ☐ The following figure will be published with the abstract, since the Search Division considers that it better characterises the invention than the one indicated by the applicant.

Figure:

- ☒ Additional copy(copies) of the documents cited in the European search report.

REFUND OF THE SEARCH FEE

If applicable under Article 10 Rules relating to fees, a separate communication from the Receiving Section on the refund of the search fee will be sent later.



EPO Form 1507 02.93



CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing more than ten claims.

- ☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):
- ☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

- ☒ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
- ☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
- ☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
- ☐ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:



The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-10,13-32

Increasing the accuracy of the positioning solution in a mobile network in the presence of multipath using only the signals present in the network.

2. claims: claim 11,12

Providing an alternative means of determining position



DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	WO 99/11086 A (CAMBRIDGE POSITIONING SYS LTD ; DUFFETT SMITH PETER (GB); HARROLD WILL) 4 March 1999 (1999-03-04)	1-6, 13-18, 23-28	G01S5/02
Y	* page 7, line 8 - line 11 *	11,12	
A	* page 12, line 19 - line 30 *	7-10, 18-22, 29-31	
	* page 14, line 10 - line 24 *		
	* page 15, line 20 - line 35 *		
	* page 16, line 11 - line 14 *		
	* page 17, line 20 - line 25 *		
	* claim 1 *		
X	US 5 945 948 A (GHOSH AMITAVA ET AL) 31 August 1999 (1999-08-31)	1-6, 13-18, 23-28	
A	* column 14, line 37 - column 16, line 36 *	7-10, 19-22, 29-31	
	* claim 45 *		
Y	US 5 982 324 A (WATTERS ET AL) 9 November 1999 (1999-11-09)	11,12	TECHNICAL FIELDS SEARCHED (Int.Cl.7)
	* figure 12 *		G01S
	* column 22, line 36 - line 46 *		
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 3 May 2005	Examiner Ó Donnabháin, C
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 02 00 4536

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

03-05-2005

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9911086	A	04-03-1999	AU 8870798 A	16-03-1999
			EP 1005773 A1	07-06-2000
			WO 9911086 A1	04-03-1999
			JP 2001514476 T	11-09-2001
US 5945948	A	31-08-1999	CA 2264077 A1	12-03-1998
			CN 1231730 A ,C	13-10-1999
			DE 19781930 T0	23-12-1999
			FI 990379 A	22-02-1999
			FR 2753035 A1	06-03-1998
			GB 2332112 A ,B	09-06-1999
			ID 17706 A	22-01-1998
			IL 128258 A	12-02-2003
			IT 1294259 B1	24-03-1999
			JP 3323206 B2	09-09-2002
			JP 2001500256 T	09-01-2001
			SE 525280 C2	25-01-2005
			SE 9900750 A	03-03-1999
			WO 9810306 A1	12-03-1998
US 5982324	A	09-11-1999	NONE	